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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/825,453		04/14/2004	Satchidanand Mishra	D/A1391	8334	
7590 08/23/2005				EXAMINER		
Patent Docum	mentati	ion Center	TRAN, HOAN H			
Xerox Corpor	ation					
Xerox Square		oor	ART UNIT	PAPER NUMBER		
100 Clinton A			2852			
Rochester, N	Y 1464	44	DATE MAILED: 08/23/2005			

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application	on No.	Applicant(s)				
		10/825,45	53	MISHRA ET AL.				
	Office Action Summary	Examiner		Art Unit				
		Hoan H. T	ran	2852				
Period fo	The MAILING DATE of this commun	ication appears on the	cover sheet with the c	correspondence address	**			
A SH THE I - Exter after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm period for reply specified above is less than thirty (3 period for reply is specified above, the maximum st re to reply within the set or extended period for reply reply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no evenunication. 0) days, a reply within the stat atutory period will apply and w will, by statute, cause the app	ent, however, may a reply be tir utory minimum of thirty (30) day ill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communic (35 U.S.C. § 133).	cation.			
Status								
1)[Responsive to communication(s) file	ed on						
2a) <u></u>	This action is FINAL .	2b)⊠ This action is n	on-final.		•			
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-20</u> is/are pending in the a 4a) Of the above claim(s) is/a Claim(s) is/are allowed. Claim(s) <u>1,5,6,8,11,19 and 20</u> is/are Claim(s) <u>2-4,7,9,10 and 12-18</u> is/are Claim(s) are subject to restrict	re withdrawn from co rejected. objected to.		,				
Applicati	on Papers				٠			
10)[The specification is objected to by the The drawing(s) filed on 14 April 2004 Applicant may not request that any objected to Replacement drawing sheet(s) including The oath or declaration is objected to	£ is/are: a)⊠ accepte ction to the drawing(s) to the correction is requir	ne held in abeyance. Se red if the drawing(s) is ob	e 37 CFR 1.85(a): ojected to. See 37 CFR 1.1				
Priority (ınder 35 U.S.C. § 119	•						
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internationsee the attached detailed Office actions	documents have bee documents have bee of the priority documental depth on the priority documental bureau (PCT Rule	en received. en received in Applicat ents have been receiv le 17.2(a)).	ion No ed in this National Stage	•			
2) Notice 3) Information	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 or r No(s)/Mail Date 04/14/2004.		4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:					

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DETAILED ACTION

Specification

- 1. The disclosure is objected to because of the following informalities:
 - Page 1, lines 2 and 4, US Serial Nos. and filing date of the co-pending applications need to be filled.
 - Page 13, line 8, replace "Lingo-PANi-fillers" with --Ligno-PANi-fillers--.

Appropriate correction is required.

Claim Objections

- 2. Claims 1 and 8-12 are objected to because of the following informalities:
 - Claim 1, line 8, replace "a" with --an--.
 - Claims 8-11, line 2, replace "belt" with --member--.
 - Claim 12, line 2, replace "transfer belt" with --intermediate transfer member--.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various

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claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukuda 5. [JP 2001-305884] in view of Viswanathan et al. ['617]

Fukuda discloses an image forming apparatus [Fig. 1] comprising a latent image carrier [1], developing units [5, 6, 7, 8], an intermediate transfer member [2] including a first binder, polyaniline and at least one sulfonic acid group as a dopant, and a fixing unit [43]. However, Fukuda does not disclose the sulfonic acid group is a ligin sulfonic acid.

Viswanathan et al. disclose a conductive composition of matter comprising a substrate including a first binder, polyaniline, and ligin sulfonic acid [Col 2, lines 45-51; Col. 4, lines 19-31].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the intermediate transfer member disclosed by Fukuda including ligin sulfonic acid as the sulfonic acid group as taught by Viswanathan et al. for the purpose of providing superior template for carrying out polymerization reactions yielding conducting compositions of matter comprising polyaniline due to its high solubility in water, crosslinkability and low cost.

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6. Claims 5, 6, 8, 11 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fukuda in view of Viswanathan et al. as applied to claims 1 and 19 above, and further in view of Yu et al. ['486]

Fukuda in view of Viswanathan et al., as discussed above, disclose the claimed invention except for the first binder is polyimide.

Yu et al. disclose an image forming apparatus comprising a seamed imaging belt comprises a substrate [32] including polyimide [Col. 8, lines 33-46; Col. 10, lines 15-38] and polyaniline dispersed in any suitable acid for doping polyaniline [Col. 14, line 44 to Col. 15, line 27]; wherein the imaging belt having a surface resistivity of less than 10⁵ ohms per square [Claim 4].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have the first binder of the intermediate transfer member disclosed by Fukuda, as modified by Viswanathan et al., including polyimide as taught by Yu et al. for the purpose of increasing the flexibility of the intermediate transfer member.

Allowable Subject Matter

7. Claims 2-4, 7, 9, 10 and 12-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Prior Art

8. The prior art made of record and not relied upon is considered pertinent to applicant's

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disclosure:

- Van den Reek et al. ['227] disclose an intermediate medium for transferring a toner image from an imaging medium to a final receiving material.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoan H. Tran whose telephone number is (571) 272-2141. The examiner can normally be reached from 8:30 AM - 5:00 PM Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Arthur Grimley can be reached at (571) 272-2136. The central office fax number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

HHT

August 21, 2005

HOANTRAN PRIMARY EXAMINES